Metadata for Acadia National Park, Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Identification_Information:
Citation:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, Wisconsin 54603
Publication_Date: 200310
Title: Vegetation Spatial Database Coverage for the Acadia National Park Vegetation Mapping Project
Edition: Final
Geospatial_Data_Presentation_Form: map
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: The spatial database was prepared by the USGS Upper Midwest Environmental Sciences Center for the USGS-NPS Vegetation Mapping Program. The Nature Conservancy, NatureServe, and Maine Natural Areas Program provided ecological and vegetation classification support.
Online_Linkage: <http://biology.usgs.gov/npsveg/acad/index.html#geospatial_veg_info>
Description:
Abstract: The U.S. Geological Survey (USGS) Upper Midwest Environmental Sciences Center (UMESC) has produced the Vegetation Spatial Database Coverage (vegetation map) for the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program (VMP). The vegetation map is of Acadia National Park (NP) and extended environs, providing 99,693 hectares (246,347 acres) of map data. Of this coverage, 52,872 hectares (130,650 acres) is non-vegetated ocean, bay, and estuary (53% of coverage). Acadia NP comprises 19,276 hectares (47,633 acres) of the total data coverage area (19%, 40% not counting ocean and estuary data). Over 7,120 polygons make up the coverage, each with map class description and, for vegetation classes, physiognomic feature information. The spatial database provides crosswalk information to all National Vegetation Classification System (NVCS) floristic and physiognomic levels, and to other established classification systems (NatureServe's U.S. Terrestrial Ecological System Classification, Maine Natural Community Classification, and the USGS Land Use and Land Cover Classification). This mapping project has identified 53 NVCS associations (vegetation communities) at Acadia National Park through analyses of vegetation sample data. These associations are represented in the map coverage with 33 map classes. With all vegetation types, land use classes, and park specific categories combined, 57 map classes define the ground features within the project area (58 classes including the class for no map data). Each polygon within the spatial database map is identified with one of these map classes. In addition, physiognomic modifiers are added to map classes representing vegetation to describe the vegetation structure within a polygon (density, pattern, and height). The spatial database was produced from the interpretation of spring 1997 1:15,840-scale color infrared aerial photographs. The standard minimum mapping unit (MMU) applied is 0.5 hectares (1.25 acres). The interpreted data were transferred and automated using base maps produced from USGS digital orthophoto quadrangles. The finished spatial database is a single seamless coverage, projected in Universal Transverse Mercator, Zone 19, with datum in North American Datum of 1983. The estimated overall thematic accuracy for vegetation map classes is 80%.

Purpose: The Vegetation Spatial Database Coverage (vegetation map) was produced for the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program. The focus of this metadata report centers on the vegetation map itself and not necessarily on vegetation classification or accuracy assessment. Although references are made to classification and accuracy assessment, their full documentation is found in separate metadata reports and in the Project's technical report.

Supplemental_Information: Of the 58 map classes used to define polygons of the vegetation map, 33 represent the 53 NVCS natural/semi-natural associations (vegetation communities) identified with this project, as defined by NatureServe. Another 3 map classes represent NVCS natural/semi-natural types at the alliance or formation level, describing beach and tidal zone vegetation. There are 5 map classes categorized as cultural vegetation, representing NVCS vegetation at the formation level, 3 of which fall under the cultivated/planted subgroup. 4 map classes represent variations of small islands with vegetation (project-derived to map those islands that are > 0.1 hectares but less than the MMU). The USGS Land Use and Land Cover Classification (level II) define 7 land use map classes, and 3 non-vegetated bodies of water. Another 2 map classes are project-derived to map 2 other non-vegetated bodies of water that did not fit in the USGS classification. 1 map class describes areas of no map data; areas purposely not mapped yet fall within the overlying exterior project boundary. A detailed listing of all map classes and their link to the various parent classification systems (plus listing of physiognomic modifiers that are added to map classes representing vegetation) is provided in the Entity and Attribute Information section of this metadata report. They are also listed in the

Project's technical report. --- The Vegetation Spatial Database Coverage is available in ArcInfo Export (e00), Spatial Database Transfer Standard, and Shapefile formats on the Project's CD-ROM.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 19970527
Ending_Date: 19970528
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: not applicable
Spatial_Domain:
Description_of_Geographic_Extent: Acadia National Park and environs
Bounding_Coordinates:
West_Bounding_Coordinate: -69
East_Bounding_Coordinate: -67.99681714
North_Bounding_Coordinate: 44.50139287
South_Bounding_Coordinate: 44.00201489
Keywords:
Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: National Park
Theme_Keyword: USGS-NPS Vegetation Mapping Program
Theme_Keyword: Acadia National Park Vegetation Mapping Project
Theme_Keyword: Vegetation Map
Theme_Keyword: Digital Spatial Database
Theme_Keyword: Land Cover
Theme_Keyword: Land Use
Theme_Keyword: Photo Interpretation
Theme_Keyword: Vegetation Mapping
Theme_Keyword: Vegetation
Theme_Keyword: National Vegetation Classification Standard
Theme_Keyword: National Vegetation Classification System
Theme_Keyword: NVCS
Theme_Keyword: U.S. National Vegetation Classification
Theme_Keyword: USNVC
Theme_Keyword: International Vegetation Classification
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Acadia National Park
Place_Keyword: Bar Harbor
Place_Keyword: Mount Desert Island
Place_Keyword: Schoodic Peninsula
Place_Keyword: Isle au Haut
Place_Keyword: Hancock County
Place_Keyword: Maine
Place_Keyword: USA
Taxonomy:
Keywords/Taxon:
Taxonomic_Keyword_Thesaurus: None
Taxonomic_Keywords: National Vegetation Classification Standard
Taxonomic_Keywords: National Vegetation Classification System
Taxonomic_Keywords: NVCS
Taxonomic_Keywords: U.S. National Vegetation Classification
Taxonomic_Keywords: USNVC
Taxonomic_Keywords: International Vegetation Classification
Taxonomic_Keywords: Alliance
Taxonomic_Keywords: Association
Taxonomic_Keywords: Vegetation Community
Taxonomic_Keywords: Community Element Global
Taxonomic_Keywords: Plant Community

Taxonomic_Keywords: The Plants Database
Taxonomic_System:
Classification_System/Authority:
Classification_System_Citation:
Citation_Information:
Originator: US Department of Agriculture, Natural Resources Conservation Service
Publication_Date: 199612
Title: The PLANTS Database (1996)
Geospatial_Data_Presentation_Form: database
Series_Information:
Series_Name: The Plants Database
Issue_Identification: December 1996
Publication_Information:
Publication_Place: National Plant Data Center, Baton Rouge, Louisiana
Publisher: USDA, NRCS
Other_Citation_Details: The Plants Database as of December 1996. USDA Natural Resources Conservation Service. Web address: <http://plants.usda.gov/>. Version used in the PLOTS Database System (1997).
Online_Linkage: <http://plants.usda.gov/>
Classification_System_Modifications: This is the version of The PLANTS Database that is used in the The Nature Conservancy's PLOTS Database System (Version 1.1, 1997).
Taxonomic_Procedures: Vegetation field sampling data were entered into a modified version of The PLOTS Database (The Nature Conservancy 1997) at the Maine Natural Areas Program, which (after checking the data for accuracy) was used to produce plot vegetation summaries and associated environmental information. To analyze vegetation patterns and classify types, we used Detrended Correspondence Analysis (DCA), Two-Way Indicator Species Analysis (TWINSPAN), and Indicator Species Analysis (ISA) within PC-ORD. An ordination technique, DCA arranges samples along derived axes according to compositional similarity. A divisive polythetic technique, TWINSPAN classifies samples and species, using a similar algorithm to that for DCA. The ISA identifies indicator species for user-defined groups of samples (in this case vegetation types) by calculating an indicator value based on a species' abundance and frequency in each of several defined groups, then using a Monte Carlo test to determine those that are significantly allied with one group as opposed to randomly distributed. Further references for all techniques can be found in the PC-ORD documentation (McCune and Mefford 1999). Whereas vegetation types were being developed and refined from the sample data, reference to the NVCS (Anderson et al. 1998) had to be maintained. The required consultations with TNC regional ecologists to (1) determine if an existing NVCS type fit the Acadia type; (2) if no existing NVCS type matched, whether it made sense to refine an existing type or to create a new type; and (3) if a new type was indicated, to name and describe that type.
Taxonomic_Classification:
Taxon_Rank_Name: Kingdom
Taxon_Rank_Value: Plantae
Access_Constraints: GIS software
Use_Constraints: 1) Those using the database should understand the data and determine for themselves the fitness of the data prior to use. 2) For publication and dissemination, citations or credit should be given to the U.S. Geological Survey Center for Biological Informatics, the National Park Service, the U.S. Geological Survey Upper Midwest Environmental Sciences Center, The Nature Conservancy, NatureServe, and Maine Natural Areas Program.
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: (303) 202-4219
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Browse_Graphic:
Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/acad/images/acadveg.gif>
Browse_Graphic_File_Description: Vegetation distribution of Acadia National Park and environs; low resolution for web browser (855 x 556 pixel size, 552 KB file size).
Browse_Graphic_File_Type: GIF

Data_Set_Credit: The USGS Upper Midwest Environmental Sciences Center, The Nature Conservancy, NatureServe, and Maine Natural Areas Program.
Native_Data_Set_Environment: UNIX-ARC/INFO
Cross_Reference:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Publication_Date: 200310
Title: Acadia National Park Vegetation Mapping Project
Geospatial_Data_Presentation_Form: report
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: The Acadia National Park Vegetation Mapping Project is a product of the USGS-NPS Vegetation Mapping Program (VMP), which is managed by the U.S. Geological Survey (USGS) Center for Biological Informatics (for more information on VMP, see larger work citation below). The mapping project is one of few listed as pilot, with purpose to test and explore protocols in mapping and classifying vegetation for the VMP. --- The project began with a planning meeting March 1997 at Acadia National Park (NP). Spring photography was collected May 1997, the baseline data for subsequent field efforts and mapping. Vegetation samples were collected over 3 field seasons (1997-1999), with the majority collected during the first 2 years. Photointerpretation and subsequent digital automation transpired during 1998 & 1999, with supporting fieldwork during the 1997 & 1998 field seasons. The first draft of the vegetation map was completed and distributed January 2000. Vegetation data analyses for vegetation classification development were performed during 1999 & 2000. Local vegetation community descriptions were completed 2001. Accuracy assessment field data was collected during the 1999 field season. The data was applied to the vegetation map with concluding results spring 2003. --- The USGS Upper Midwest Environmental Sciences Center (UMESC) provided project coordination and compiled all project data for distribution. The UMESC produced all spatial database sets: vegetation map, observation points, vegetation sample plots, accuracy assessment sites, and various other supporting coverages. The UMESC also performed the accuracy assessment of the vegetation spatial database coverage, prepared final project documentation discussing methods and results, and provided metadata reports. The Nature Conservancy, NatureServe, and Maine Natural Areas Program provided ecological and vegetation support, vegetation field sampling (plot samples and accuracy assessment), data entry, vegetation analysis, methods and results documentation, and vegetation classification development (including vegetation community descriptions) based on the Federal Geographic Data Committee's National Vegetation Classification Standard with floristic level types defined by NatureServe's International Vegetation Classification (association and alliance classes of the National Vegetation Classification System). Acadia NP provided staff to assist in field efforts including GPS navigation and collection, lodging, boat transportation, and knowledge of the local area. --- The Project provides a technical report with details regarding methods and results. Metadata documents are provided for the vegetation spatial database coverage (vegetation map), field reconnaissance observations, vegetation field plots (samples), accuracy assessment, aerial photography, and project boundaries.
Online_Linkage: <http://biology.usgs.gov/npsveg/acad/>
Larger_Work_Citation:
Citation_Information:
Originator: U.S. Geological Survey, Center for Biological Information
Publication_Date: 200304
Title: USGS-NPS Vegetation Mapping Program (May 2003)
Geospatial_Data_Presentation_Form: online
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Overview
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: Overview of USGS - NPS Vegetation Mapping Program (taken from <http://biology.usgs.gov/npsveg/overview.html>, May 2003): The USGS-NPS Vegetation Mapping Program is a cooperative effort by the U.S. Geological Survey (USGS) and the National Park Service (NPS) to classify, describe, and map vegetation communities in more than 270 national park units across the United States. This landmark program is both the first to provide national-scale descriptions of vegetation for a federal agency and the first to create national vegetation standards for its data products. Its goal is to meet specific information needs identified by the National Park Service. --- The vegetation mapping program is an important part of the NPS Inventory and Monitoring Program, a long-term effort to develop baseline data for all national park units that have a natural resource component. It is managed by the USGS Center for Biological Informatics, a unique information center designed to help scientists, land managers, the public, and others

locate and apply biological information. --- Program activities are based on peer-reviewed, objective science. Comprehensive vegetation information is provided at national and regional levels, while also serving local management needs of individual parks. Stringent quality control procedures ensure that products are accurate and consistent for initial inventory purposes and replicable for monitoring purposes. The spatially enabled digital products produced by the program are available on the World Wide Web. --- Program scientists have developed data collection procedures for classification, mapping, accuracy assessment, and use of existing data. Program products meet Federal Geographic Data Committee standards for vegetation classification and metadata, and national standards for spatial accuracy and data transfer. Standards include a minimum mapping unit of 0.5 hectares and classification accuracy of 80% for each map class. Nature Serve, an important partner in the USGS-NPS Vegetation Mapping program, is the caretaker of the National Vegetation Classification System, which is used by the program to classify vegetation communities. --- A report of project methods and results is provided at completion of individual projects. Project results include a rich set of data and information for each park project, as follows: --- Spatial Data: Aerial photography, Map classification, Map classification description and key, Spatial database of vegetation communities, Hardcopy maps of vegetation communities, Metadata for spatial databases, Complete accuracy assessment of spatial data, Vegetation Information. --- Vegetation classification: Dichotomous field key of vegetation classes, Formal description for each vegetation class, Ground photos of vegetation classes, Field data in database format.

Online_Linkage: <http://biology.usgs.gov/npsveg/>

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Based on results of a thematic accuracy assessment, the estimated overall accuracy for map classes representing National Vegetation Classification System (NVCS) natural/semi-natural associations (vegetation communities) is 80%, with a kappa index of 79%.
Logical_Consistency_Report: All polygon features were checked for topology and existence of label points using ArcInfo (Version 8.0.2). Each polygon begins and ends at the same point with the node feature. All nodes were checked for error so that there are no dangling features. There are no duplicate lines or polygons. All nodes were snapped together and polygons closed based on a specified tolerance. The tests for logical consistency were performed in ArcInfo.
Completeness_Report: All data within the bounding coordinates are complete with polygons representing ground features at the time of aerial photographs. Each polygon is represented with an attribute in the form of a code that represents the map class and any special modifier classes when applicable. This attribute label is cross-referenced within the database attribute table, providing reference to other established classification systems, including all physiognomic and floristic levels of the NVCS. A 0.5-hectare (1.25 acre) minimum mapping unit was applied to all map classes, except for the small island categories, which were mapped to 0.1 hectares (0.25 acres).
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report: Photointerpretation data were spatially referenced by method of transferring photointerpreted polygon data to USGS 1:12,000-scale orthophoto base maps (hard copy maps plotted from 3.75-minute digital orthophoto quadrangles, DOQ). The map coverage is assumed to have a positional accuracy meeting U.S. National Map Accuracy Standards for DOQ maps.
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Aero-Metric, Inc.
Publication_Date: 199705
Title: Aerial Photographs of Acadia National Park
Geospatial_Data_Presentation_Form: aerial photography
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Sheboygan, Wisconsin
Publisher: Aero-Metric, Inc.
Other_Citation_Details: Aerial photographs of Acadia National Park and environs were collected as baseline imagery data to produce the vegetation spatial database coverage for the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program. --- Participants of the mapping project's initial scoping meeting (March 1997) agreed to acquire aerial photography of Acadia National Park and extended environs during spring 1997 so that fieldwork and mapping could get underway during the following summer and fall seasons. Aero-Metric, Inc. of Sheboygan, Wisconsin executed the aerial photography mission via contract with the U.S. Army Corp of Engineers (Project Number 1970520), a joint initiative with the U.S. Geological Survey Upper Midwest Environmental Sciences Center (UMESC) of La Crosse, Wisconsin. --- All park fee and easement lands and extended environs were successfully photographed May 27 and 28,

1997 using color infrared dia-positive transparent film (9 x 9 inch size). The photos were collected with an above ground level of 7,920 feet with a lens focal length of 6 inches, resulting in a photo scale of 1:15,840 (negative scale of 1 inch = 1,320 feet, or 4 inches = 1 mile). A 30% side lap (between each flight line) and 60% forward lap (along each flight line) collection standard insured full coverage and stereo viewing. 1179 photos were collected across 28 initial flight lines covering the entire project area. An additional 37 photos across 4 flight lines were re-flown over the mountainous areas of Mount Desert Island to adjust the photo scale of the high mountain terrain. In all, 1216 photos were collected. Two sets of contact prints were made from the original photo transparency film (one set for the field sampling process, and one set for the mapping process).

Source_Scale_Denominator: 15840
Type_of_Source_Media: photographic print
Source_Time_Period_of_Content:
Time_Period_Information:
Multiple_Dates/Times:
Single_Date/Time:
Calendar_Date: 19970527
Single_Date/Time:
Calendar_Date: 19970528
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: ACAD Spring 1997 CIR Aerial Photographs
Source_Contribution: Aerial images used for field work, photo interpretation, and subsequent map automation.
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Geological Survey
Publication_Date: 1991
Title: USGS 3.75-minute Digital Orthophoto Quadrangles of Acadia NP
Geospatial_Data_Presentation_Form: orthoimage
Series_Information:
Series_Name: U.S. Geological Survey Digital Orthophoto Quadrangle Program
Issue_Identification: 3.75-minute
Publication_Information:
Publication_Place: Menlo Park, California
Publisher: U.S. Geological Survey, Earth Science Information Center
Other_Citation_Details: Black & white (gray-scale) orthorectified images derived from aerial photographs taken May - July 1991. Projection is in Universal Transverse Mercator, Zone 19, and datum in North American Datum of 1983, Geodedic Reference System 80 spheroid.
Source_Scale_Denominator: 12000
Type_of_Source_Media: photographs
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1991
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: ACAD USGS 3.75-minute DOQ (USGS 1991)
Source_Contribution: Geo-spatial images used for geo-referencing aerial photo interpretation data.
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Publication_Date: 2003
Title: Map Classes for the Acadia National Park Vegetation Mapping Project
Geospatial_Data_Presentation_Form: report
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: La Crosse, Wisconsin
Publisher: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Other_Citation_Details: Map class codes and name descriptions developed specifically for the Acadia NP Vegetation Mapping Project. Includes crosswalk to the National Vegetation Classification System floristic and physiognomic levels (names and codes), Physiognomic - Hydrologic Groups, Maine Natural Community Classification, and U.S. Geological Survey Land

Use and Land Cover Classification System (Level 2). Files pertaining to map classification lists and crosswalk to other classifications are available on the project's CD-ROM.
Type_of_Source_Media: Digital database file
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2003
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: ACAD Map Classification (UMESC 2003)
Source_Contribution: Map classification defining map polygon data (both vegetation types and general land cover).
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, Wisconsin 54603
Publication_Date: 200310
Title: Vegetation Spatial Database Coverage for the Acadia National Park Vegetation Mapping Project
Edition: Final
Geospatial_Data_Presentation_Form: map
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: The spatial database was prepared by the USGS Upper Midwest Environmental Sciences Center for the USGS-NPS Vegetation Mapping Program. The Nature Conservancy, NatureServe, and Maine Natural Areas Program provided ecological and vegetation classification support.
Online_Linkage: <http://biology.usgs.gov/npsveg/acad/>
Type_of_Source_Media: Digital database file
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 200310
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: ACAD FINAL Vegetation Map (UMESC 2003)
Source_Contribution: Geo-spatial database of polygon data showing locations of vegetation types and general land cover; final version.
Source_Information:
Source_Citation:
Citation_Information:
Originator: NatureServe
Publication_Date: 2003
Title: International Vegetation Classification (2003)
Geospatial_Data_Presentation_Form: Database
Publication_Information:
Publication_Place: Arlington, Virginia
Publisher: NatureServe
Other_Citation_Details: NatureServe. 2003. International Ecological Classification Standard: International Vegetation Classification. Central Databases, NatureServe, Arlington, Virginia, USA.
Online_Linkage: <http://www.natureserve.org/>
Type_of_Source_Media: online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2003
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: NVCS Floristic Classes (NatureServe 2003)
Source_Contribution: Vegetation classification (associations and community descriptions, 2003 version) to define natural/semi-natural vegetation types represented by the final version of the classification map.
Source_Information:

Source_Citation:
Citation_Information:
Originator: National Spatial Data Infrastructure, Federal Geographic Data Committee, Vegetation Subcommittee
Publication_Date: 199706
Title: National Vegetation Classification Standard (1997)
Edition: June 1997
Geospatial_Data_Presentation_Form: document
Series_Information:
Series_Name: Standards
Issue_Identification: Vegetation Classification and Information Standards
Publication_Information:
Publication_Place: Reston, Virginia
Publisher: Federal Geographic Data Committee
Other_Citation_Details: Federal Geographic Data Committee. 1997. Vegetation classification standard, FGDC-STD-005.
Online_Linkage: <http://www.fgdc.gov/standards/documents/standards/vegetation>
Type_of_Source_Media: online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199706
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: NVCS Physiognomic Classes (FGDC 1997)
Source_Contribution: Standard vegetation classification system (physiognomic levels) used for vegetation classification structure.
Source_Information:
Source_Citation:
Citation_Information:
Originator: Anderson, M., P. Bourgeron, M. T. Bryer, R. Crawford, L. Engelking, D. Faber-Langendoen, M. Gallyoun, K. Goodin, D. H. Grossman, S. Landaal, K. Metzler, K. D. Patterson, M. Pyne, M. Reid, L. Sneddon, and A. S. Weakley
Publication_Date: 1998
Title: International classification of ecological communities: terrestrial vegetation of the United States. Volume II. The National Vegetation Classification System: list of types
Geospatial_Data_Presentation_Form: document
Publication_Information:
Publication_Place: Arlington, Virginia, USA
Publisher: The Nature Conservancy
Other_Citation_Details: U.S. National Vegetation Classification listing of physiognomic and floristic classes.
Type_of_Source_Media: online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1998
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: U.S. National Vegetation Classification (TNC 1998)
Source_Contribution: Vegetation classification (associations 1998 version) to provide natural/semi-natural vegetation types represented by the draft (beta) version of the vegetation map.
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, Wisconsin 54603
Publication_Date: 200001
Title: Vegetation Spatial Database Coverage (BETA) for the Acadia National Park Vegetation Mapping Project
Edition: Beta
Geospatial_Data_Presentation_Form: map
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: La Crosse, Wisconsin
Publisher: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Other_Citation_Details: This BETA version of the Acadia NP vegetation spatial database was distributed to the VMP and

Acadia NP for initial review and use. Because community vegetation classification was not sufficiently developed at the time of release, the BETA version is supported only with map classification information (map classes and physiognomic vegetation data).

Type_of_Source_Media: Digital database file
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 200001
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: ACAD BETA Vegetation Map (UMESC 2000)
Source_Contribution: Geo-spatial database of polygon data showing locations of vegetation types and general land cover; draft version used for product review.

Process_Step:
Process_Description: INTRODUCTION: --- The Vegetation Spatial Database Coverage (vegetation map) was produced for the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program. The focus of this metadata report centers on the vegetation map itself and not necessarily on vegetation classification or accuracy assessment. Although references are made to classification and accuracy assessment, their full documentation is found in separate metadata reports and in the Project's technical report. Acadia National Park (NP) required a high collaborative process between the mapping team, U.S. Geological Survey (USGS) Upper Midwest Environmental Sciences Center (UMESC), and the ecology team, The Nature Conservancy (TNC), NatureServe, and Maine Natural Areas Program (MNAP). In hopes to expedite the project, it was determined at the Project's scoping meeting to proceed with the vegetation mapping simultaneous to (and thus, prior to) vegetation classification. Map classification and conventions in regard to natural/semi-natural vegetation types were developed based on concepts of the National Vegetation Classification System (NVCS) coupled with perceptions of the vegetation known at that time. Subsequent to mapping, vegetation analysis and classification development were completed, some with other than anticipated results. The vegetation map, therefore, went through substantial modifications to best accommodate the final version of the vegetation classification. Nevertheless, because of mapping prior to classification, some ambiguity exists between the map and vegetation classifications.
Process_Date: 1999-2003

Process_Step:
Process_Description: SCOPING MEETING: --- Participants from the USGS (Center for Biological Informatics and UMESC), National Park Service (Acadia NP, Boston office), TNC (eastern regional office and home office), and MNAP met March 25-26, 1997 at Acadia NP Headquarters, Bar Harbor, Maine to discuss the mapping project. Acadia NP staff became informed of the USGS-NPS Vegetation Mapping Program, and mapping and ecology teams learned about the Park's management and science issues. A preliminary schedule with assigned tasks was developed and a project boundary was established.
Process_Date: 1997

Process_Step:
Process_Description: AERIAL PHOTOGRAPHY: --- Scoping meeting participants agreed to acquire aerial photography during spring 1997 so that fieldwork and mapping could get underway during the following summer and fall seasons. The UMESC collaborated with the U.S. Army Corp of Engineers to contract with Aero-Metric, Inc. (Sheboygan, WI) to fly the photo mission. Color infrared (CIR) photographs were collected May 27-28, 1997 at a scale of 1:15,840. In all, 1216 aerial photographs were successfully collected covering all Park fee and easement lands and extended environs. More details on the Project's aerial photographs are provided in Source Information just prior to Process Step, both in this Data Quality section (source citation abbreviation ACAD Spring 1997 CIR Aerial Photographs).
Process_Date: 1997
Source_Produced_Citation_Abbreviation: ACAD Spring 1997 CIR Aerial Photographs

Process_Step:
Process_Description: FIELD RECONNAISSANCE & MAP CLASSIFICATION: --- Prior to photointerpretation, field reconnaissance was performed throughout the 1997 field season by the photointerpretation team to learn, test, and verify photo signatures and to establish a map classification. Ecologists intermittently assisted to assure correct field calls and to verify additional vegetation types as they were encountered. During the following fall and winter, mapping protocols were developed and the aerial photointerpretation team began delineating and classifying polygons. During the 1998 field season, field reconnaissance activities resumed, with additional map validation and revisions to the map classification and conventions. --- Throughout the mapping project, the map classification had undergone several updates and adjustments, reflecting knowledge of the vegetation and landscape at those given times. For a listing of map classes, see the Entity and Attribute Information section of this metadata report. A breakdown of map classes into general categories is provided at the beginning of this metadata report under the Supplemental Information of the Identification Information section.
Source_Used_Citation_Abbreviation: ACAD Spring 1997 CIR Aerial Photographs
Source_Used_Citation_Abbreviation: U.S. National Vegetation Classification (TNC 1998)
Process_Date: 1997-1998

Process_Step:
Process_Description: PHOTOINTERPRETATION: --- Photointerpretation was performed using the spring 1997 CIR film

transparencies. The photographs were cut from rolls and covered with clear acetate overlays. The overlays were registered to the photos. Ground features were interpreted and delineated onto the photo overlays using Bausch and Lomb Zoom 240 stereoscopes over Richards MIM2 light table. Each photograph was viewed with its matching stereo pairs so images could be seen in 3-dimensions. To minimize edge distortion, interpretation was focused towards the center of each photograph. Polygons were delineated defining ground features and attribute codes were scribed onto the overlays using Rapidograph ink pens. --- Texture, height, pattern, life form, and position in the landscape were all used in the decision process of delineating polygons and assigning map class codes. When applicable, physiognomic modifier codes were added in conjunction with the map class codes. Larger polygons were delineated first, with subsequent smaller polygons delineated down to the minimum mapping unit of 0.5 hectares (1.25 acres). Small islands with vegetation were mapped to 0.1 hectares (0.25 acres). A total of 236 photos were interpreted with classified polygon data for subsequent digital automation to produce the spatial database coverage.

Source_Used_Citation_Abbreviation: ACAD Spring 1997 CIR Aerial Photographs
Source_Used_Citation_Abbreviation: ACAD Map Classification (UMESC 2003)
Process_Date: 1998-1999

Process_Step:
Process_Description: MAP AUTOMATION & DRAFT SPATIAL DATABASE: --- Bausch and Lomb zoom transfer scopes were used to transfer photointerpreted data to geo-referenced base maps. The transfer process removed much of the aerial photograph's inherent distortion and tied the interpreted data to real-world coordinates so it could be digitally automated. A total of 65 USGS 3.75-minute DOQ were used to plot hard copy (film acetate) orthophoto base maps at a scale of 1:12,000. The polygons were manually transferred to overlays that were registered to the base maps. Polygon attribute codes were added to a second overlay that was positioned and referenced over the polygon overlay. The overlays were subsequently rechecked for accuracy. --- Each overlay of transferred data was scanned using a large format sheet scanner at a resolution of 400 dots per inch. The resulting Tagged Image File Format images were then converted to a grid using ArcInfo (Version 7.2.1 Patch 2). The converted grid was projected to Universal Transverse Mercator (UTM), Zone 19, with datum in North American Datum of 1983 (NAD83). Each individual grid was transformed to geo-referenced boundary coverages (from the DOQ) to digitally reference the data to real-world coordinates. In ArcTools, the ArcScan utility was used to trace the referenced polygon data producing an ArcInfo coverage. Each intermediate coverage was edited for errors, assigned attributes to polygons, checked against the hand-transferred overlays for line and attribute errors, and finally joined together to produce a seamless spatial database coverage of the vegetation map. --- This draft version (BETA) of the spatial database was distributed to the VMP and Acadia NP for initial review and use. Because community vegetation classification had not sufficiently been developed at the time of release, the BETA version was supported only with map classification information (map classes and physiognomic vegetation data).
Source_Used_Citation_Abbreviation: ACAD Spring 1997 CIR Aerial Photographs
Source_Used_Citation_Abbreviation: ACAD USGS 3.75-minute DOQ (USGS 1991)
Process_Date: 1998-2000
Source_Produced_Citation_Abbreviation: ACAD BETA Vegetation Map (UMESC 2000)

Process_Step:
Process_Description: FINAL SPATIAL COVERAGE: --- The map coverage went through a series of edits once the vegetation analyses and community descriptions were finished. Some vegetation concepts that were understood in theory during the photointerpretation stage had been revised from the results of the vegetation analyses. This became evident once the accuracy assessment was initially applied to the map (with an overall accuracy below 80% standard). Numerous global consolidations (that is, universal classification changes of all like-classified polygons) were applied to the map to best align the map classification to the final vegetation classification. Reaching the accuracy standard, the vegetation map was made final, complete with a direct link to the vegetation classification within the database. --- The map coverage attribute table contains numerous items that provide a set of information for each polygon. The attribute table was originally produced in spreadsheet format (dBASE IV), and then converted to an ArcInfo table using ArcInfo (Version 8.0.2). The table was merged with the spatial coverage using MAP_ATT as the common attribute item. For the list of attribute items, refer to the Entity and Attribute Information's Entity and Attribute Overview section within this metadata report. The final Vegetation Spatial Database Coverage made into an ArcInfo Export (.e00) file. (Note: Spatial Database Transfer Standard and Shapefile formats are produced from the ArcInfo coverage.)
Source_Used_Citation_Abbreviation: NVCS Floristic Classes (NatureServe 2003)
Source_Used_Citation_Abbreviation: NVCS Physiognomic Classes (FGDC 1997)
Source_Used_Citation_Abbreviation: ACAD BETA Vegetation Map (UMESC 2000)
Source_Produced_Citation_Abbreviation: ACAD Map Classification (UMESC 2003)
Source_Produced_Citation_Abbreviation: ACAD FINAL Vegetation Map (UMESC 2003)
Process_Date: 2003
Process_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Kevin Hop
Contact_Organization: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Contact_Position: Principal Investigator
Contact_Address:

Address_Type: mailing and physical address
Address: 2630 Fanta Reed Road
City: La Crosse
State_or_Province: Wisconsin
Postal_Code: 54603
Country: USA
Contact_Address:
Address_Type: organization address
Address: 2630 Fanta Reed Road
City: La Crosse
State_or_Province: Wisconsin
Postal_Code: 54603
Contact_Voice_Telephone: (608) 783-6451
Contact_Facsimile_Telephone: (608) 783-6066
Contact_Electronic_Mail_Address: kevin_hop@usgs.gov

Spatial_Data_Organization_Information:
Indirect_Spatial_Reference: Acadia National Park, the first national park to be established east of the Mississippi, is located on the coast of Maine primarily in Hancock County (with outlying areas in adjacent Knox County) and is situated on a large portion of Mount Desert Island as well as some adjacent mainland and island tracts, including the Schoodic Peninsula and Isle au Haut. The Park encompasses almost 48,000 acres of granite-domed mountains, woodlands, lakes and ponds, and ocean shoreline with nearby towns and villages including Bar Harbor, Northwest Harbor, Southwest Harbor, Seal Harbor, Bass Harbor, and Isle au Haut.
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 19
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.9996
Longitude_of_Central_Meridian: -69
Latitude_of_Projection_Origin: 0
False_Easting: 500000
False_Northing: 0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.76
Ordinate_Resolution: 0.76
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodedic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview: Items within the spatial database attribute table in addition to the ArcInfo default items (e.g. area, perimeter) include: 1) MAP_ATT - map class code with all applicable physiognomic feature modifiers, 2) MAP_CODE - map class code, 3) MAP_DESC - map class description name, 4) DENS_MOD - coverage density (physiognomic modifier, applies to all vegetation map classes), 5) PTRN_MOD - coverage pattern (physiognomic modifier, applies to all vegetation map classes), 6) HT_MOD - height (physiognomic modifier, applies to all woody terrestrial vegetation map classes), 7) PHYS_HYDR - physiologic/hydrologic groups, 8) MAINE_CLSF - Maine Natural Community Classification, 9) ECO_SYSTEM - U.S.

Terrestrial Ecological System Classification (name & code), 10) ASSN_SNAME - scientific global community name (NVCS Association), 11) ASSN_TNAME - translated global community name (NVCS Association) 12) ASSN_CNAME - synonym global community name (NVCS Association), 13) ASSN_CEGL - Community Element Global code (Elcode link to NVCS Association), 14) NVCS_CODE - NVCS code (to Alliance level), 15) CLASS - NVCS Formation Class (Class code & name), 16) SUBCLASS - NVCS Formation Subclass (Subclass code & name), 17) GROUP - NVCS Formation Group (Group code & name), 18) SUBGROUP - NVCS Formation Subgroup (Subgroup code & name), 19) FORMATION - NVCS Formation (Formation code & name), 20) ALL_SNAME - NVCS Alliance name (Alliance code & name), 21) ALL_CNAME - NVCS common Alliance name, 22) LUC_II - USGS Land Use and Land Cover Classification System (Level II, code & name).

Entity_and_Attribute_Detail_Citation: Map class codes and description names (MAP_ATT, MAP_CODE, & MAP_DESC): Map Classes for the Acadia National Park Vegetation Mapping Project. 2003. U.S. Geological Survey Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin.

Entity_and_Attribute_Detail_Citation: Physiognomic Modifiers - Coverage Density, Coverage Pattern, and Height, (DENS_MOD, PTRN_MOD, & HT_MOD): Physiognomic modifiers added to map classes (when applicable) to describe structural features. Original source for Coverage Density, Coverage Pattern, and Height is cited to Aerial Information Systems, Inc. 1995. Standard Interpretive Conventions (Viewgraph 3). Redlands, California. Height categories were modified to accommodate park specific needs.

Entity_and_Attribute_Detail_Citation: Maine Natural Community Classification - (PHYS_HYDRO & MAINE_CLSF): physiognomic/hydrologic groupings per Maine's natural community classification organization (added for presentation organizational purposes). Gawler, S. 2003 (in press). Maine Natural Community Classification is cited to Natural Landscapes of Maine: A Classification of Vegetated Natural Communities and Ecosystems. Maine Department of Conservation, Natural Areas Program. Augusta, ME.

Entity_and_Attribute_Detail_Citation: U.S. Terrestrial Ecological System Classification (ECO_SYSTEM): Comer, P., D. Faber-Langendoen, R. Evans, S. Gawler, C. Josse, G. Kittel, S. Menard, M. Pyne, M. Reid, K. Schulz, K. Snow, and J. Teague. 2003. Ecological Systems of the United States: A Working Classification of U.S. Terrestrial Systems. NatureServe, Arlington, Virginia. 61 pp. + Appendices.

Entity_and_Attribute_Detail_Citation: NVCS physiognomic Class, Subclass, Group, Subgroup, and Formation codes and names (NVCS_CODE, CLASS, SUBCLASS, GROUP, SUBGROUP, FORMATION): Federal Geographic Data Committee. 1997. Vegetation classification standard, FGDC-STD-005.

Entity_and_Attribute_Detail_Citation: Standard floristic Association names, Community Global Element codes, and floristic Alliance codes and names (ASSN_SNAME, ASSN_TNAME, ASSN_CNAME, ASSN_CEGL, ALL_SNAME, ALL_TNAME): NatureServe. 2003. International Ecological Classification Standard: International Vegetation Classification. Central Databases, NatureServe, Arlington, Virginia, USA.

Entity_and_Attribute_Detail_Citation: USGS Land Use and Land Cover Classification System (LUC_II): Anderson, J. R., E. Hardy, J. Roach, and R. Witter. 1976. A Land Use and Land Cover Classification System for Use with Remote Sensor Data. Geological Survey Professional paper 964. U.S. Government Printing Office, Washington. Note: Crosswalk to level 2 for all map classes.

Detailed_Description:
Entity_Type:
Entity_Type_Label: SF
Entity_Type_Definition: Spruce - Fir Forest (conifer phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.A.8.N.c.15 - PICEA RUBENS - ABIES BALSAMEA FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Picea rubens - Picea glauca Forest (CEGL006151)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.A.8.N.c - Conical-crown temperate or subpolar needle-leaved evergreen forest
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:

Entity_Type_Label: WPC
Entity_Type_Definition: White Pine - Mixed Conifer Forest
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.A.8.N.b.13 - PINUS STROBUS - TSUGA CANADENSIS FOREST ALLIANCE AND/OR I.C.3.N.a.32 – TSUGA CANADENSIS - BETULA ALLEGHANIENSIS FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus strobus - Tsuga canadensis - Picea rubens Forest (CEGL006324) AND/OR Tsuga canadensis – (Betula alleghaniensis) - Picea rubens / Cornus canadensis Forest (CEGL006129)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: I.A.8.N.b - Rounded-crown temperate or subpolar needle-leaved evergreen forest AND/OR I.C.3.N.a – Mixed needle-leaved evergreen - cold-deciduous forest
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WRP
Entity_Type_Definition: Red Pine - White Pine Forest
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.A.8.N.b.14 - PINUS STROBUS FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus strobus - Pinus resinosa / Cornus canadensis Forest (CEGL006253)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.A.8.N.b - Rounded-crown temperate or subpolar needle-leaved evergreen forest
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: MDF
Entity_Type_Definition: Beech - Birch - Maple Forest
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.B.2.N.a.4 - ACER SACCHARUM - BETULA ALLEGHANIENSIS - (FAGUS GRANDIFOLIA) FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association

Attribute_Definition: Acer saccharum - Betula alleghaniensis - Fagus grandifolia / Viburnum lantanoides Forest (CEGL006252)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.B.2.N.a - Lowland or submontane cold-deciduous forest
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: OPF
Entity_Type_Definition: Oak - Pine Forest
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.B.2.N.a.39 - QUERCUS RUBRA - (ACER SACCHARUM) FOREST ALLIANCE, I.C.3.N.a.21 - PINUS STROBUS - QUERCUS (ALBA, RUBRA, VELUTINA) FOREST ALLIANCE, I.C.3.N.a.300 - PINUS STROBUS - ACER SACCHARUM FOREST ALLIANCE, II.B.2.N.a.24 - QUERCUS RUBRA - QUERCUS PRINUS WOODLAND ALLIANCE, AND/OR V.A.5.N.e.8 - DANTHONIA SPICATA HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Quercus rubra - Acer rubrum - Betula spp. - Pinus strobus Forest (CEGL006506), Pinus strobus - Quercus (rubra, velutina) - Fagus grandifolia Forest (CEGL006293), Acer saccharum - Pinus strobus / Acer pensylvanicum Forest (CEGL005005), Quercus rubra - (Quercus prinus) / Vaccinium spp. / Deschampsia flexuosa Woodland (CEGL006134), AND/OR (Pinus strobus, Quercus rubra) / Danthonia spicata Acid Bedrock Wooded Herbaceous Vegetation (CEGL005101)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.B.2.N.a - Lowland or submontane cold-deciduous forest, I.C.3.N.a - Mixed needle-leaved evergreen - cold-deciduous forest, II.B.2.N.a - Cold-deciduous woodland, AND/OR V.A.5.N.e - Short sod temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SFM
Entity_Type_Definition: Spruce - Fir Forest (mixed phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.C.3.N.a.4 - PICEA RUBENS - BETULA ALLEGHANIENSIS FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Picea rubens - Abies balsamea - Betula spp. - Acer rubrum Forest (CEGL006505) AND/OR Picea rubens – Betula alleghaniensis / Dryopteris campyloptera Forest (CEGL006267)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.C.3.N.a - Mixed needle-leaved evergreen - cold-deciduous forest

Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WPM
Entity_Type_Definition: White Pine - Hardwood Forest
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.B.2.N.a.39 - QUERCUS RUBRA - (ACER SACCHARUM) FOREST ALLIANCE, I.C.3.N.a.32 - TSUGA CANADENSIS - BETULA ALLEGHANIENSIS FOREST ALLIANCE, AND/OR I.C.3.N.a.300 - PINUS STROBUS - ACER SACCHARUM FOREST ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Quercus rubra - Acer rubrum - Betula spp. - Pinus strobus Forest (CEGL006506), Tsuga canadensis – (Betula alleghaniensis) - Picea rubens / Cornus canadensis Forest (CEGL006129), AND/OR Acer saccharum - Pinus strobus / Acer pensylvanicum Forest (CEGL005005)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.B.2.N.a - Lowland or submontane cold-deciduous forest AND/OR I.C.3.N.a - Mixed needle-leaved evergreen - cold-deciduous forest
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: MCW
Entity_Type_Definition: Mixed Conifer Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.b.1 - THUJA OCCIDENTALIS WOODLAND ALLIANCE, II.A.4.N.b.3 - PICEA RUBENS WOODLAND ALLIANCE, AND/OR II.A.4.N.b.400 - PICEA MARIANA WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Thuja occidentalis - Fraxinus pennsylvanica / Acer pensylvanicum Woodland (CEGL006508), Picea rubens / Vaccinium angustifolium - Sibbaldiopsis tridentata Woodland (CEGL006053), Picea rubens / Ribes glandulosum Woodland (CEGL006250), AND/OR Picea mariana / Kalmia angustifolia Woodland (CEGL006292)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.b - Conical-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WCW
Entity_Type_Definition: White Cedar Woodland

Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.b.1 - THUJA OCCIDENTALIS WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Thuja occidentalis / Gaylussacia baccata - Vaccinium angustifolium Woodland (CEGL006411) AND/OR Thuja occidentalis - Fraxinus pennsylvanica / Acer pensylvanicum Woodland (CEGL006508)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.b - Conical-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: JPW
Entity_Type_Definition: Jack Pine Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.a.9 - PINUS (BANKSIANA, RESINOSA) WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus banksiana / Kalmia angustifolia - Vaccinium spp. Woodland (CEGL006041)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.a - Rounded-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: PPB
Entity_Type_Definition: Pitch Pine - Heath Barren
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.a.26 - PINUS RIGIDA WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus rigida / Vaccinium spp. - Gaylussacia baccata Woodland (CEGL005046)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:

Attribute_Label: Formation
Attribute_Definition: II.A.4.N.a - Rounded-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: PPC
Entity_Type_Definition: Pitch Pine - Corema Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.a.26 - PINUS RIGIDA WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus rigida / Corema conradii Woodland(CEGL006154)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.a - Rounded-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: PPW
Entity_Type_Definition: Pitch Pine Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.a.26 - PINUS RIGIDA WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Pinus rigida / Photinia melanocarpa / Deschampsia flexuosa - Schizachyrium scoparium Woodland (CEGL006116)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.a - Rounded-crown temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ABF
Entity_Type_Definition: Aspen - Birch Woodland/Forest Complex (forest phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.B.2.N.a.10 - POPULUS TREMULOIDES WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification

Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Populus (tremuloides, grandidentata) - Betula (populifolia, papyrifera) Woodland (CEGL006303)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.B.2.N.a - Cold-deciduous woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ABW
Entity_Type_Definition: Aspen - Birch Woodland/Forest Complex (woodland phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.B.2.N.a.10 - POPULUS TREMULOIDES WOODLAND ALLIANCE AND/OR II.B.2.N.a.24 – QUERCUS RUBRA - QUERCUS PRINUS WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Populus (tremuloides, grandidentata) - Betula (populifolia, papyrifera) Woodland (CEGL006303) AND/OR Betula alleghaniensis - Quercus rubra / Polypodium virginianum Woodland (CEGL006320)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.B.2.N.a - Cold-deciduous woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ABS
Entity_Type_Definition: Aspen - Birch Woodland/Forest Complex (shrubland phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.B.2.N.a.10 - POPULUS TREMULOIDES WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Populus (tremuloides, grandidentata) - Betula (populifolia, papyrifera) Woodland (CEGL006303)
Attribute_Definition_Source: NatureServe International VegetationClassification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.B.2.N.a - Cold-deciduous woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:

Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ROW
Entity_Type_Definition: Red Oak Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.B.2.N.a.39 - QUERCUS RUBRA - (ACER SACCHARUM) FOREST ALLIANCE AND/OR II.B.2.N.a.24 - QUERCUS RUBRA - QUERCUS PRINUS WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Quercus rubra - Acer rubrum - Betula spp. - Pinus strobus Forest (CEGL006506) AND/OR Quercus rubra – (Quercus prinus) / Vaccinium spp. / Deschampsia flexuosa Woodland (CEGL006134)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.B.2.N.a - Lowland or submontane cold-deciduous forest AND/OR II.B.2.N.a - Cold-deciduous woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: MW
Entity_Type_Definition: Mixed Conifer - Deciduous Woodland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.b.3 - PICEA RUBENS WOODLAND ALLIANCE, II.B.2.N.a.10 - POPULUS TREMULOIDES WOODLAND ALLIANCE, AND/OR V.A.5.N.e.8 - DANTHONIA SPICATA HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Picea rubens / Vaccinium angustifolium - Sibbaldiopsis tridentata Woodland (CEGL006053), Populus (tremuloides, grandidentata) - Betula (populifolia, papyrifera) Woodland (CEGL006303), AND/OR (Pinus strobus, Quercus rubra) / Danthonia spicata Acid Bedrock Wooded Herbaceous Vegetation (CEGL005101)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.b - Conical-crown temperate or subpolar needle-leaved evergreen woodland, II.B.2.N.a - Cold-deciduous woodland, AND/OR V.A.5.N.e - Short sod temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: MAS
Entity_Type_Definition: Red Maple - Hardwood Swamp
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.B.2.N.e.1 - ACER RUBRUM - FRAXINUS PENNSYLVANICA SEASONALLY FLOODED FOREST

ALLIANCE AND/OR II.B.2.N.e.1 - ACER RUBRUM SATURATED WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Acer rubrum - Fraxinus spp. / Nemopanthus mucronatus - Vaccinium corymbosum Forest (CEGL006220) AND/OR Acer rubrum / Alnus incana - Ilex verticillata / Osmunda regalis Woodland (CEGL006395)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.B.2.N.e - Seasonally flooded cold-deciduous forest AND/OR II.B.2.N.e - Saturated cold-deciduous woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: CSW
Entity_Type_Definition: Conifer Swamp Woodland (spruce-mixed phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: I.C.3.N.d.10 - PICEA RUBENS - ACER RUBRUM SATURATED FOREST ALLIANCE AND/OR II.A.4.N.f.13 - PICEA MARIANA SATURATED WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Picea rubens - Acer rubrum / Nemopanthus mucronatus Forest (CEGL006198) AND/OR Picea mariana / (Vaccinium corymbosum, Gaylussacia baccata) / Sphagnum sp. Woodland (CEGL006098)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: I.C.3.N.d - Saturated mixed needle-leaved evergreen - cold-deciduous forest AND/OR II.A.4.N.f - Saturated temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WCS
Entity_Type_Definition: Conifer Swamp Woodland (white cedar phase)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: II.A.4.N.f.11 - THUJA OCCIDENTALIS SATURATED WOODLAND ALLIANCE AND/OR II.A.4.N.f.13 - PICEA MARIANA SATURATED WOODLAND ALLIANCE
Attribute_Definition_Source: NatureServe Alliance scientific name
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Thuja occidentalis - Abies balsamea / Ledum groenlandicum / Carex trisperma Woodland (CEGL006507) AND/OR Picea mariana / (Vaccinium corymbosum, Gaylussacia baccata) / Sphagnum sp. Woodland (CEGL006098)
Attribute_Definition_Source: NatureServe Association scientific name

Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: II.A.4.N.f - Saturated temperate or subpolar needle-leaved evergreen woodland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: CB
Entity_Type_Definition: Crowberry - Bayberry Headland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: IV.A.1.N.b.7 - EMPETRUM NIGRUM DWARF-SHRUBLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Morella pensylvanica - Empetrum nigrum Dwarf-shrubland (CEGL006510)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: IV.A.1.N.b - Creeping or matted needle-leaved or microphyllous evergreen dwarf-shrubland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: BBSS
Entity_Type_Definition: Blueberry Bald - Summit Shrubland Complex
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: IV.B.2.N.a.1 - VACCINIUM (ANGUSTIFOLIUM, MYRTILLOIDES, PALLIDUM) DWARF-SHRUBLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation ClassificationClassification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Vaccinium angustifolium - Sorbus americana / Sibbaldiopsis tridentata Dwarf-shrubland (CEGL005094)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: IV.B.2.N.a - Cespitose cold-deciduous dwarf-shrubland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: AM
Entity_Type_Definition: Dune Grassland
Entity_Type_Definition_Source: map class - project derived
Attribute:

Attribute_Label: Alliance
Attribute_Definition: V.A.5.N.c.2 - AMMOPHILA BREVILIGULATA HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Ammophila breviligulata - Lathyrus japonicus Herbaceous Vegetation (CEGL006274)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.5.N.c - Medium-tall sod temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SVH
Entity_Type_Definition: Open Headland - Beach Strand
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: VII.A.2.N.a.4 - OPEN PAVEMENT SPARSELY VEGETATED ALLIANCE AND/OR VII.C.2.N.a.2 – CAKILE EDENTULA SPARSELY VEGETATED ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Solidago sempervirens - (Rhodiola rosea) - Juniperus horizontalis Sparse Vegetation (CEGL006529) AND/OR Cakile edentula ssp. edentula - Mertensia maritima Sparse Vegetation (CEGL006106)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: VII.A.2.N.a - Pavement with sparse vascular vegetation AND/OR VII.C.2.N.a - Sand flats
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SVT
Entity_Type_Definition: Sparsely Vegetated Talus
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: VI.B.1.N.c.300 - LICHEN SPP. NONVASCULAR ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Polypodium (virginianum, appalachianum) / Lichen spp. Nonvascular Vegetation (CEGL006534)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation

Attribute_Definition: VI.B.1.N.c - Lichen vegetation with a sparse tree layer
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ASP
Entity_Type_Definition: Alder Shrubland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: III.B.2.N.d.9 - ALNUS INCANA TEMPORARILY FLOODED SHRUBLAND ALLIANCE AND/OR III.B.2.N.e.9 - ALNUS SERRULATA SEASONALLY FLOODED SHRUBLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Alnus incana - Cornus sericea / Clematis virginiana Shrubland (CEGL006062) AND/OR Alnus incana ssp. rugosa - Nemopanthus mucronatus / Sphagnum spp. Shrubland (CEGL006158)
Attribute_Definition_Source: NatureServe Alliance scientific name
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: III.B.2.N.d - Temporarily flooded cold-deciduous shrubland AND/OR III.B.2.N.e - Seasonally flooded cold-deciduous shrubland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SG
Entity_Type_Definition: Sweetgale Mixed Shrub Fen
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: III.B.2.N.g.9 - MYRICA GALE SATURATED SHRUBLAND ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Myrica gale - Spiraea alba - Chamaedaphne calyculata Shrubland (CEGL006512)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: III.B.2.N.g - Saturated cold-deciduous shrubland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: DSB
Entity_Type_Definition: Dwarf Shrub Bog
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: IV.A.1.N.g.1 - CHAMAEDAPHNE CALYCULATA SATURATED DWARF-SHRUBLAND ALLIANCE

AND/OR V.A.5.N.h.1 - TRICHOPHORUM CAESPITOSUM HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Kalmia angustifolia - Chamaedaphne calyculata - (Picea mariana) / Cladina spp. Dwarf-shrubland (CEGL006225) AND/OR Trichophorum caespitosum - Gaylussacia dumosa / Sphagnum (fuscum, rubellum, magellanicum) Herbaceous Vegetation (CEGL006260)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: IV.A.1.N.g - Saturated needle-leaved or microphyllous evergreen dwarf-shrubland AND/OR V.A.5.N.h – Short alpine or subalpine dry bunch grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: FX
Entity_Type_Definition: Fen Complex
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: III.B.2.N.e.9 - ALNUS SERRULATA SEASONALLY FLOODED SHRUBLAND ALLIANCE, III.B.2.N.g.9 - MYRICA GALE SATURATED SHRUBLAND ALLIANCE, IV.A.1.N.g.1 - CHAMAEDAPHNE CALYCULATA SATURATED DWARF-SHRUBLAND ALLIANCE, IV.A.1.N.g.4 - EMPETRUM NIGRUM SATURATED DWARF-SHRUBLAND ALLIANCE, V.A.5.N.k.36 - CAREX STRICTA SEASONALLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.k.39 - CALAMAGROSTIS CANADENSIS SEASONALLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.m.7 - CAREX LASIOCARPA SATURATED HERBACEOUS ALLIANCE, AND/OR V.A.7.N.o.3 - CHAMAEDAPHNE CALYCULATA / CAREX LASIOCARPA SATURATED SHRUB HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Alnus incana - Cornus sericea / Clematis virginiana Shrubland (CEGL006158), Myrica gale - Spiraea alba – Chamaedaphne calyculata Shrubland (CEGL006512), Kalmia angustifolia - Chamaedaphne calyculata - (Picea mariana) / Cladina spp. Dwarf-shrubland (CEGL006225), Empetrum nigrum - Gaylussacia dumosa - Rubus chamaemorus / Sphagnum spp. Dwarf-shrubland (CEGL006248), Chamaedaphne calyculata / Eriophorum virginicum / Sphagnum rubellum Dwarf-shrubland (CEGL006513), Carex stricta - Carex vesicaria Seasonally Flooded Herbaceous Vegetation (CEGL006412), Calamagrostis canadensis - Scirpus spp. - Dulichium arundinaceum Herbaceous Vegetation (CEGL006519), Carex (lasiocarpa, utriculata, canescens) Herbaceous Vegetation (CEGL006521), AND/OR Carex (oligosperma, exilis) - Chamaedaphne calyculata Shrub Herbaceous Vegetation (CEGL006524)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: III.B.2.N.e - Seasonally flooded cold-deciduous shrubland, III.B.2.N.g - Saturated cold-deciduous shrubland, IV.A.1.N.g - Saturated needle-leaved or microphyllous evergreen dwarf-shrubland, V.A.5.N.k - Seasonally flooded temperate or subpolar grassland, V.A.5.N.m - Saturated temperate or subpolar grassland, AND/OR V.A.7.N.o - Saturated temperate or subpolar grassland with a sparse broad-leaved evergreen shrub layer
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: TG

Entity_Type_Definition: Tidal Marsh
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: V.A.5.N.n.2 - TYPHA (ANGUSTIFOLIA, DOMINGENSIS) TIDAL HERBACEOUS ALLIANCE AND/OR V.A.5.N.n.11 - SPARTINA PATENS - (DISTICHLIS SPICATA) TIDAL HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Typha angustifolia - Hibiscus moscheutos Herbaceous Vegetation (CEGL004201) AND/OR Spartina patens - Distichlis spicata - (Juncus gerardii) Herbaceous Vegetation (CEGL006006)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.5.N.n - Tidal temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SMG
Entity_Type_Definition: Graminoid Shallow Marsh
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: V.A.5.N.k.36 - CAREX STRICTA SEASONALLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.k.39 - CALAMAGROSTIS CANADENSIS SEASONALLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.l.3 - JUNCUS MILITARIS SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.l.9 - TYPHA (ANGUSTIFOLIA, LATIFOLIA) - (SCHOENOPLECTUS SPP.) SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE, AND/OR V.A.5.N.m.7 - CAREX LASIOCARPA SATURATED HERBACEOUS ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Association
Attribute_Definition: Carex stricta - Carex vesicaria Seasonally Flooded Herbaceous Vegetation (CEGL006412), Calamagrostis canadensis - Scirpus spp. - Dulichium arundinaceum Herbaceous Vegetation (CEGL006519), Juncus militaris Herbaceous Vegetation (CEGL006345), Typha (angustifolia, latifolia) - (Schoenoplectus spp.) Eastern Herbaceous Vegetation (CEGL006153), AND/OR Carex (lasiocarpa, utriculata, canescens) Herbaceous Vegetation (CEGL006521)
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.5.N.k - Seasonally flooded temperate or subpolar grassland, V.A.5.N.l - Semipermanently flooded temperate or subpolar grassland, AND/OR V.A.5.N.m - Saturated temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: OWM
Entity_Type_Definition: Open Water - Deep Marsh Complex
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Alliance
Attribute_Definition: V.A.5.N.l.2 - ELEOCHARIS SPP. - ERIOCAULON AQUATICUM SEMIPERMANENTLY FLOODED

HERBACEOUS ALLIANCE, V.A.5.N.l.9 - TYPHA (ANGUSTIFOLIA, LATIFOLIA) - (SCHOENOPLECTUS SPP.) SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE, V.A.5.N.l.16 - SCHOENOPLECTUS ACUTUS - (SCHOENOPLECTUS TABERNAEMONTANI) SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE, V.C.2.N.a.17 - VALLISNERIA AMERICANA PERMANENTLY FLOODED TEMPERATE HERBACEOUS ALLIANCE, AND/OR V.C.2.N.a.102 - NYMPHAEA ODORATA - NUPHAR SPP. PERMANENTLY FLOODED TEMPERATE HERBACEOUS ALLIANCE

Attribute_Definition_Source: NatureServe International Vegetation Classification

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Association

Attribute_Definition: Eriocaulon aquaticum - Lobelia dortmanna Herbaceous Vegetation (CEGL006346), Typha (angustifolia, latifolia) - (Schoenoplectus spp.) Eastern Herbaceous Vegetation (CEGL006153), Schoenoplectus (tabernaemontani, acutus) Eastern Herbaceous Vegetation (CEGL006275), Vallisneria americana - Potamogeton perfoliatus Herbaceous Vegetation (CEGL006196), AND/OR Nuphar lutea ssp. advena - Nymphaea odorata Herbaceous Vegetation (CEGL002386)

Attribute_Definition_Source: NatureServe International Vegetation Classification

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Formation

Attribute_Definition: V.A.5.N.l - Semipermanently flooded temperate or subpolar grassland AND/OR V.C.2.N.a - Permanently flooded temperate or subpolar hydromorphic-rooted vegetation

Attribute_Definition_Source: FGDC Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

Detailed_Description:

Entity_Type:

Entity_Type_Label: TZ

Entity_Type_Definition: Tidal Algal Zone

Entity_Type_Definition_Source: map class - project derived

Attribute:

Attribute_Label: Alliance

Attribute_Definition: VI.C.2.N.a.300 - ASCOPHYLLUM NODOSUM - FUCUS VESICULOSUS TIDAL ALGAL VEGETATION ALLIANCE AND/OR VI.C.2.N.a.301 - LAMINARIA AGARDHII - CHONDRUS CRISPUS TIDAL ALGAL NONVASCULAR ALLIANCE

Attribute_Definition_Source: NatureServe International Vegetation Classification

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Formation

Attribute_Definition: VI.C.2.N.a - Tidal temperate or subpolar alga vegetation

Attribute_Definition_Source: FGDC Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

Detailed_Description:

Entity_Type:

Entity_Type_Label: TB

Entity_Type_Definition: Tidal Beach

Entity_Type_Definition_Source: map class - project derived

Attribute:

Attribute_Label: Formation

Attribute_Definition: VII.C.2.N.a - Tidal sand flats

Attribute_Definition_Source: FGDC Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

Detailed_Description:

Entity_Type:

Entity_Type_Label: TM

Entity_Type_Definition: Tidal Mud Flat

Entity_Type_Definition_Source: map class - project derived

Attribute:

Attribute_Label: Alliance
Attribute_Definition: VII.C.4.N.d.300 - ESTUARINE TIDAL MUDFLATS SPARSELY VEGETATED ALLIANCE
Attribute_Definition_Source: NatureServe International Vegetation Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Formation
Attribute_Definition: VII.C.4.N.d - Tidal mud flats
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SIT
Entity_Type_Definition: Small Island with Trees
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small upland islands (0.1 ha > 0.5 ha in area) dominated by trees, either forest or woodland
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SIS
Entity_Type_Definition: Small Island with Shrubs
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small upland islands (0.1 ha > 0.5 ha in area) dominated by shrubs
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SIG
Entity_Type_Definition: Small Island with Grass
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small upland islands (0.1 ha > 0.5 ha in area) dominated by grasses and forbs
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SIR
Entity_Type_Definition: Small Island with Rock
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small upland islands (0.1 ha > 0.5 ha in area) dominated by nonvascular lichens and mosses over exposed bedrock
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: EPL
Entity_Type_Definition: Evergreen Plantation
Entity_Type_Definition_Source: map class - project derived

Attribute:
Attribute_Label: Formation
Attribute_Definition: I.A.8.C.a - Evergreen Plantation
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: SMD
Entity_Type_Definition: Mixed Deciduous Shrubland
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Formation
Attribute_Definition: III.B.2.N.a - Temperate cold-deciduous shrubland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: MGF
Entity_Type_Definition: Mixed Grass - Forb
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.5.N.c - Medium-tall sod temperate or subpolar grassland
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: PGCH
Entity_Type_Definition: Perennial Grass Crops
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.5.C.a - Perennial grass crops (hayland, pastureland)
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: PGCS
Entity_Type_Definition: Perennial Grass Crops with Sparse Shrubs
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Formation
Attribute_Definition: V.A.7.C.a - Perennial grass crops with a sparse shrub layer (hayland, pastureland)
Attribute_Definition_Source: FGDC Vegetation Classification Standard
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WBP
Entity_Type_Definition: Beaver Pond (non-vegetated)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small ponds (or portion of ponds) with < 10% vegetated that are influenced by beaver activity
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

Detailed_Description:
Entity_Type:
Entity_Type_Label: WNP
Entity_Type_Definition: Natural Pond (non-vegetated)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: Small ponds (or portion of ponds) with < 10% vegetated (not influenced by beaver activity)
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WST
Entity_Type_Definition: Stream (non-vegetated)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 51 - Streams and Canals
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WLK
Entity_Type_Definition: Lake (non-vegetated)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 52 - Lakes
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: WO
Entity_Type_Definition: Ocean - Bay - Estuarary (non-vegetated)
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 54 - Bays and Estuaries
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: UR
Entity_Type_Definition: Residential
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 11 - Residential
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: UC
Entity_Type_Definition: Commercial and Services
Entity_Type_Definition_Source: map class - project derived
Attribute:

Attribute_Label: LUC Level II
Attribute_Definition: 12 - Commercial and Services
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: UT
Entity_Type_Definition: Transportation and Roads
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 14 - Transportation, Communications, and Utilities
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: UM
Entity_Type_Definition: Mixed Urban or Built-up Land
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 16 - Mixed Urban or Built-up Land
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: UBL
Entity_Type_Definition: Other Urban or Built-up Land
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 17 - Other Urban or Built-up Land
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: ARB
Entity_Type_Definition: Other Agricultural Land
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 24 - Other Agricultural Land
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: BLQ
Entity_Type_Definition: Strip Mines, Quarries, and Gravel Pits
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: LUC Level II
Attribute_Definition: 75 - Strip Mines, Quarries, and Gravel Pits
Attribute_Definition_Source: USGS Land Use and Land Cover
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:

Entity_Type:
Entity_Type_Label: ND
Entity_Type_Definition: No Data
Entity_Type_Definition_Source: map class - project derived
Attribute:
Attribute_Label: Park Specific
Attribute_Definition: No map data
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: Coverage Density
Entity_Type_Definition: Special physiognomic modifier amended to vegetation map classes to describe general cover density of the vegetation type mapped
Entity_Type_Definition_Source: AIS, Inc. 1995
Attribute:
Attribute_Label: 1
Attribute_Definition: Closed Canopy/Continuous (60-100% coverage)
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 2
Attribute_Definition: Open Canopy/Discontinuous (25-60% coverage)
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 3
Attribute_Definition: Dispersed-Sparse Canopy (10-25% coverage)
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: Coverage Pattern
Entity_Type_Definition: Special physiognomic modifier amended to vegetation map classes to describe general cover pattern of the vegetation type mapped
Entity_Type_Definition_Source: AIS, Inc. 1995
Attribute:
Attribute_Label: A
Attribute_Definition: Evenly Dispersed
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: B
Attribute_Definition: Clumped/Bunched
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: C
Attribute_Definition: Gradational/Transitional
Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: D
Attribute_Definition: Regularly Alternating

Attribute_Definition_Source: project derived
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Detailed_Description:
Entity_Type:
Entity_Type_Label: Height
Entity_Type_Definition: Special physiognomic modifier amended to woody terrestrial map classes to describe average height of the vegetation type mapped
Entity_Type_Definition_Source: AIS, Inc. 1995; modified for mapping project
Attribute:
Attribute_Label: 1
Attribute_Definition: 30-50 meters (98-162 feet)
Attribute_Definition_Source: not used
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 2
Attribute_Definition: 20-30 meters (65-98 feet)
Attribute_Definition_Source: modified from source
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 3
Attribute_Definition: 12-20 meters (40-65 feet)
Attribute_Definition_Source: modified from source
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 4
Attribute_Definition: 5-12 meters (16-40 feet)
Attribute_Definition_Source: modified from source
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 5
Attribute_Definition: 0.5-5 meters (1.5-16 feet)
Attribute_Definition_Source: modified from source
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.
Attribute:
Attribute_Label: 6
Attribute_Definition: <0.5 meters (<1.5 feet)
Attribute_Definition_Source: modified from source
Attribute_Domain_Values:
Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

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Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999